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5-2 At the completion of this unit, the EMT-Critical Care Technician student will be able to utilize the assessment findings to formulate a field impression, implement and evaluate the management plan for the patient experiencing a cardiac emergency.

At the completion to this unit, the EMT-Critical Care Technician student will be able to:

- 5-2.2 Review cardiovascular anatomy and physiology. (C-1)
- 5-2.5 Identify and describe the components of assessment as it relates to the patient with cardiovascular compromise. (C-1)
- 5-2.6 Describe how ECG wave forms are produced. (C-1)
- 5-2.7 Correlate the electrophysiological and hemodynamic events occurring throughout the entire cardiac cycle with the various ECG wave forms, segments and intervals. (C-2)
- 5-2.8 Identify how heart rates may be determined from ECG recordings. (C-1)
- 5-2.9 List the limitations to the ECG. (C-1)
- 5-2.10 Describe a systematic approach to the analysis and interpretation of cardiac arrhythmias. (C-2)
- 5-2.12 List the clinical indications for defibrillation **and synchronized cardioversion**. (C-1)
- 5-2.13 Identify the specific mechanical, pharmacological and electrical therapeutic interventions for patients with arrhythmias causing compromise. (C-1)
- 5-2.14 List the clinical indications for, **and prehospital implications of,** an implanted defibrillation **and or pacemaker** devices. (C-1)
- 5-2.15 Define angina pectoris and myocardial infarction (MI). (C-1)
- 5-2.16 List other clinical conditions that may mimic signs and symptoms of angina pectoris and myocardial infarction. (C-1)
- 5-2.17 List the mechanisms by which an MI may be produced by traumatic and non-traumatic events. (C-2)
- 5-2.18 List and describe the assessment parameters to be evaluated in a patient with chest pain. (C-1)
- 5-2.19 Identify what is meant by the OPQRST of chest pain assessment. (C-1)
- 5-2.20 List and describe the initial assessment parameters to be evaluated in a patient with chest pain that may be myocardial in origin. (C-1)
- 5-2.21 Identify the anticipated clinical presentation of a patient with chest pain that may be angina pectoris or myocardial infarction. (C-3)
- 5-2.22 Describe the pharmacological agents available to the EMT-Critical Care Technician for use in the management of arrhythmias and cardiovascular emergencies. (C-2)
- 5-2.23 Develop, execute, and evaluate a treatment plan based on the field impression for the patient with chest pain that may be indicative of angina or myocardial infarction. (C-3)
- 5-2.24 Define the terms "congestive heart failure" and "pulmonary edema." (C-1)
- 5-2.25 Define the cardiac and non-cardiac causes and terminology associated with pulmonary edema and pulmonary edema. (C-2)
- 5-2.26 Describe the early and late signs and symptoms of pulmonary edema. (C-1)
- 5-2.27 Explain the clinical significance of paroxysmal nocturnal dyspnea. (C-1)
- 5-2.28 List and describe the pharmacological agents available to the EMT-Critical Care Technician for use in the management of a patient with cardiac compromise. (C-1)
- 5-2.29 Define the term "hypertensive emergency." (C-1)

